PART 1 - GENERAL

A. Contract Drawings and general provisions of the Contract, apply to this Section.

1.2 SUMMARY

A. This Section includes following types of signs:

1. Reflective vehicular directional and information signs (V- Signs).
2. Retroreflective regulatory signs (R- Signs).
3. Non-reflective pedestrian directional and informational signs (PP- Signs).
4. PVC Pipe Clearance Signs (PVC- Signs).
5. Brailled ADA Compliant Identification Signs (A-Signs).
6. Vandal-resistant Signs (VR- Signs).
7. Other code required signs.

1.3 SUBMITTALS

A. General: Submit following in accordance with Conditions of Contract.

B. Product Data: Include manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.

C. Shop Drawings: Provide shop drawings for fabrication and erection of signs. Include plans, elevations, and large-scale sections of typical members and other components. Show mounting methods, mounting heights, anchors, grounds, reinforcement, accessories, layout, spacing, dimensions and installation details.

1. Provide message list, typestyles, graphic elements, including tactile characters and Braille and artwork as shown on drawings, and layout of lettering. Include large scale details of sign layout.
2. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
3. Wiring Diagrams from manufacturer of electrified signs for power, signal and control wiring.

D. Samples: Provide following samples of each sign component for verification of compliance with requirements indicated.

1. Samples of each sign material type (V-, R-, PP-, VR-, etc), on not less than 6-in. squares of extrusion, sheet or plate, showing full range of colors to be provided.
2. Dimensional characters and castings: Full size sample showing character, material, texture, finish, color, style and attachment method.

3. Brailled Copy: Sample of ADA compliant sign showing raised image text, brailled copy and colors.

E. Maintenance Data: For signage cleaning and maintenance requirements to be included in maintenance manual.

1.4 QUALITY ASSURANCE

A. Qualifications: Sign manufacturer shall have completed a minimum of 3 projects in last 3 years with similar materials and methods of manufacture as required for this project.

B. Qualifications: Bidder/Installers: When proposed bidder/installer is not proposed manufacturer of at least 75% of signs on project, Bidder/Installer shall be pre- approved. 3 weeks before bidding, prospective bidders shall submit to Engineer/Architect 2 copies of portfolio containing 3 representative projects successfully completed over 3 years preceding Bid. One of 3 projects shall be prospective bidder's most recently completed project. Portfolio shall contain plans, shop drawings, reference letters, material samples, and color photographs of representative projects. Engineer/Architect will review all submitted portfolios with Owner and will issue list of acceptable sign subcontractors 1 week before Bid date. Qualification for Project will prequalify Bidder for future projects with Engineer/Architect for 1 year from Project Bid date.

C. Where warranties are required, manufacturer and/or installers shall be authorized by the entity providing the warranty.

D. All completed signs shall be free from defects in materials and workmanship and effectively present specified or permitted message under both day and night viewing conditions. Sign faces shall be reasonably smooth, shall exhibit uniform color and brightness over entire background surface and shall not appear mottled, streaked, or stained when viewed either in ordinary daylight or incidental beams of automobile headlamps.

E. Support structures for signs that are free-standing or extending from any exterior surface of the building, including but not limited to the roof level parking signs on cantilever supports, shall be designed by a licensed professional engineer in the State of Arkansas in accordance with ASCE 7-10’s requirements for wind loads.

F. Regulatory Requirements:

1. Comply with Americans with Disabilities Act (ADA) and state and local codes as adopted by authorities having jurisdiction. Signs affected, may include, but not be limited to:
   a. Permanently Designated Rooms and Spaces: A- Signs.
   b. Elevator Signs.
   c. Stairway Identification.

2. MUTCD:

    a. Regulatory R- and Warning W- signs shall be fully compliant with all requirements of the Manual on Uniform Traffic Control Devices (MUTCD) except that sign size may be modified due to space constraints.

G. Single-Source Responsibility: For each separate required type of sign as defined herein, obtain signs from a single firm specializing in this type of work so that there will be undivided responsibility for such work.

H. Design Criteria: Drawings indicate sizes, profiles, and dimensional requirements of signs. Other signs with deviations from indicated dimensions and profiles may be considered, provided deviations do not change design concept. Burden of proof of equality is on proposer.

I. Coordinate sign placement with structural configuration and lighting location. Before sign installation, arrange meeting with Engineer/Architect and lighting installer at site to review sign placement. Additional compensation not allowed for relocating signs after installation if relocation required due to conflicts with lighting or structure.

J. Trade Names: Do not display manufacturer's name, trade name, trademarks, or similar markings on exterior or visible surfaces.

K. Sign Quantity Count: Sign Fabricator shall be responsible for determining the final quantity count of all signs, as indicated on the Signage Schedule and Location Plans, prior to fabrication.

L. Finishes Warranty: Submit five-year written warranty, signed by the Contractor and Installer, warranting that the architectural signage finishes will not develop excessive fading or excessive non-uniformity of color or shade and will not crack, peel, pit or corrode or otherwise fail as a result in defects, within the warranty period, make necessary repairs or replacement at the convenience of the owner or facility's management.

1. "Excessive Fading": A change in appearance which is perceptible and objectionable as determined by the Designer when visually compared with the original color range standards.
2. "Excessive Non-Uniformity": Non-Uniform fading during the period of the guarantee, to the extent that adjacent panels have a color difference greater that the original acceptance range of color.
3. "Will Not Pit or Otherwise Corrode": No Pitting or other type of corrosion discernible from a distance of 10'-0", resulting from the natural elements in the atmosphere at the project site.

M. Replacement or Repairs: The owner or facilities management shall have the right to continue use of the defective part until such time that the part is replaced or repaired without loss or inconvenience to the owner or facility's management. Warranties shall also state that the replaced or repaired part shall have a warranty period equal to the remaining warranty period for the replaced or repaired part plus an additional one year.

1.5 PROJECT CONDITIONS

A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting and mounting. Where sizes of signs may be affected by dimensions of surfaces on which they are installed, verify dimensions by field measurement. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

1.6 COORDINATION

A. For signs to be supported by or anchored to permanent construction, provide installers with specific requirements for anchorage devices. Furnish templates for installation.

1.7 MAINTENANCE

A. Maintenance Instruction: Furnish maintenance manual to instruct the owner or facility's management personnel in procedures to be followed in cleaning and maintaining the signage. Provide manufacturer's brochures describing the actual materials used in the Work, including metal alloys and finishes.

1. Include a list of cleaning materials appropriate for continued cleaning of signs. Include written instructions for proper maintenance, service access, replacement procedures, etc. Include recommended methods for removal of residual adhesives from wall surfaces after removal of adhesive mounted signs.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Product: Where named products are specified, subject to compliance with requirements specific to this project, provide either named product or an equivalent product by other manufacturers specified.

B. Manufacturers: Subject to compliance with requirements specific to this project, accepted manufacturers listed in Part 2 are considered to have been prequalified in conformance with paragraph 1.4.A and B of this section. Acceptable manufacturers include, but are not limited to the following:

1. Manufacturers of panel signs, including V-,R-, PP-,and VR signs:

a. ABC Architectural Signing System, Division of Nelson-Harkins Industries.
b. Alcan Composites, Benton, KY.
c. Allenite, A Division of Allen Marking Products, Inc.
d. Andco Industries Corp.
e. APCO Graphics, Inc.
f. Architectural Graphics, Inc.
g. ASI Sign Systems, Inc.

h. Best Manufacturing Co.
i. Interstate Highway Sign Corp.
j. Henry Graphics.
k. Jarob Design, Inc.
l. Pannier Graphics.
m. Tapco.
n. Vomar.
o. Or approved equal

2. Manufacturers of Brailed Signs (A-):

a. Supersine Company.
b. Jet Signs.
c. Or approved equal

2.2 MATERIALS

A. Graphics:

1. Graphics shall be highest quality with sharp lines and smooth curves. Images shall be uniform colors and free from streaks or spotting.

2. Content and Style: Provide sign copy that complies with requirements indicated for size, style, spacing, content, position, material, finishes, and colors of letters, numbers, and other graphic devices. Notations contained within the comments section of the sign schedule indicate additional text required on sign such as street name, etc. Notations contained within parenthesis ( ) in the sign schedule and instructions for logos or symbols that are to be included on the sign, as shown on the design drawings. Refer to the sign schedule for copy, description of signs, and reference to sign types.

3. Silk screening: Where specified or permitted, silk screening shall be highest quality, with sharp lines, no sawtooths, or uneven ink coverage.

a. Screens shall be photographically reproduced.
b. Background ink shall be process inks as recommended by manufacturer of substrate employed.
c. Ink application through screens: 1 flood pass and 1 print pass. Images: uniform color and ink thickness; free from squeegee marks and lines.
d. Signs: dry in adequate racks with 2 in. spacing for ample air flow and forced air drying and curing.
e. Package signs only after they have dried completely per ink manufacturer's time allowances.
f. Where reflective messages are specified or permitted to be reverse silk- screened with a non-reflective, opaque background, the sheeting material shall be 3M Scotchlite Engineer Grade Reflective Sheeting Series 3200 or equivalent meeting US Department of Transportation Standard Specification for Construction of Roads and Bridges on Federal Highway Products, 1985 FP-85, Type II, Section 718.01.

g. Where reflective messages are specified or permitted to be reverse silk- screened with a reflective, transparent background, the sheeting material shall be 3M Scotchlite High Intensity Grade Sheeting Series 3930 or equivalent meeting US Department of Transportation Standard Specification for Construction of Roads and Bridges on Federal Highway Products, 1985 FP-85, Type IIIA, Section 718.01.

4. Pressure applied graphics:

a. Where pressure-applied graphics applied to a painted background are specified or permitted, the paint shall be flat, opaque acrylic polyurethane as recommended by manufacturer of substrate and graphic media.
b. Where pressure-applied, reflective graphics on an opaque painted background are specified or permitted, letters shall be digitally produced, and cut by electronic cutting machines from 3M Scotchlite Electrocut Engineer Grade Sheeting Series 3260 material, colors as noted on drawings or equivalent. Edges shall be sealed per manufacturer recommendation.
c. Where pressure-applied, reflective graphics on a reflective background are specified or permitted, the sheeting material shall be 3930 Hi Intensity Prismatic or equivalent meeting US Department of Transportation Standard Specification for Construction of Roads and Bridges on Federal Highway Products, 1985 FP-85, Type IIIA, Section 718.01. The letters shall be digitally produced and cut by electronic cutting machines from 3M Scotchlite Electronic Cutable Film Series 1170, colors as noted on drawings or equivalent.
d. Where pressure-applied, non-reflective graphics are specified, letters shall be digitally produced, and cut by computer-driven processes from 3M Scotchcal Electrocut 7725 film.
e. Where electronically cut letters and symbols are specified, the inside corners shall be rounded using the largest radius consistent with acceptable appearance. Minimum radius shall be 1/8 inch on a 3 inch letter. Use prespacing tape as recommended by manufacturer of sheeting as a carrier for letters, numerals and symbols.

5. Digital Imaging: Where digital imaging for original art and multicolored graphics are specified.

a. Where first surface, reflective graphics are specified, the image shall be electronically produced and electrostatically printed onto the transfer media and then heat transferred onto 3M Scotchlite Plus Sheeting Series 680 using IJ680-10 technology. Image to be protected with 3M recommended graphic protective clear coating. Not to be used for regulatory signs.
b. Where first surface non-reflective graphics are required, the image shall be electronically produced and electrostatically printed onto the transfer media and then heat transferred onto 3M Scotchprint flexible reflective graphic film IJ180-10 technology. Image to be protected with 3M recommended graphic protective clear coating.
c. Where second surface, non-reflective graphics are required, the image shall be produced using 3M Scotchprint Electronic Graphics System using Scotchcal 7725 marking film and lamination.

6. Where specified, dry film transfer shall be produced digitally using computer- driven Dry Thermal Transfer system over 3M high intensity reflective vinyl substrates.
7. All products specified to employ 3M sheeting, films, or other components shall be guaranteed and backed by 3M MCS Warranty or equivalent.

B. Inks and Paints:

1. All inks and paints shall be a type made for surface material to which it is applied and recommended by manufacturer. Exact identification shall be noted on shop drawings, with data describing application method, if other than air-drying. Prohibited: paint or ink that will fade, discolor, or delaminate due to UV or heat exposure.
2. All colors for which color match specified shall be approved by Engineer/Architect prior to production.
3. Acceptable manufacturers and suppliers of inks for silk-screening shall be only those materials recommended by the manufacturer of the sheeting and as required for 3M MCS warranty, or equivalent, where applicable.
4. Paints: all materials best quality. Products of DuPont DeNemours & Company, Pittsburgh Plate Glass Company, Glidden, Matthews or Sherwin-Williams acceptable.

    a. Opaque background for pressure applied graphics: Two-part acrylic polyurethane, low gloss. Care shall be taken to provide proper curing so that outgassing does not occur after application of sheeting and/or graphics.

5. Applied color whether ink or paint shall conform to color and accelerated weathering requirements of FP-79 and shall not be removable when tested by Film Adhesion Test and by Film Hardness Test.

C. Blank Panels: Comply with requirements indicated for materials, thickness, finish, color, design, shape, size, and details of construction.

1. General:

    a. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 0.0625 in. measured diagonally.
    b. The back side and edges of all panel signs shall be painted with acrylic polyurethane, color to match the specified background color.
    c. Edge Condition: Square cut.
    d. Corner Condition: Square cut for all signs except Regulatory and Warning signs. Regulatory and Warning sign corners shall be rounded per MUTCD.

2. Aluminum:

    a. Provide aluminum sheet of 6061-T6 or 5052-H38 alloys and temper recommended by aluminum producer or finisher for use type and finish indicated, and with not less than strength and durability properties specified in ASTM B209 for 5005-H15.

b. Aluminum extrusions shall be of alloy and temper recommended by aluminum producer for type of use and finish and with not less than strength and durability properties specified in ASTM B221 for 6063-T5.
c. Panels shall be etched, degreased, flat, and free of ragged edges. Radius corners by stamping. All signs of same size shall be totally uniform in size. Surface shall be completely clear of dust and dirt before finishes applied.
d. Panels to receive 3M sheeting and/or paint shall be treated with an anodizing conversion coating to provide resistance to corrosion and white rust formation. Conversion coating may be:

1) Chromate, meeting ASTM B449 class 2. Coating weight should be 10 to 35 mg per sq ft with a median of 25 mg per square foot. Coating shall not be dusty and shall be tightly bonded within itself and to the aluminum substrate.
2) Non-chromate coatings must meet the requirements for ASTM B449 class 1 chromate coatings. The non-chrome coating shall be adherent and non-powdery. Adhesion of air-dried acrylic coating shall meet ASTM D 3359 or ASTM D 4541 and must be equivalent to that of the coating on chromate coated aluminum of the same alloy.

e. Fabricate aluminum signs with adequately sized, full-length stiffener members as indicated on Drawings.

D. V- Signs: Vehicular signs with reflective graphics and retroreflective message on an opaque background.

1. Base materials:

a. Aluminum with either reverse silk-screened graphics or pressure-applied retroreflective letters.

2. Graphics and Copy: Any of the following methods of producing graphics and copy may be employed.

a. Pressure applied retroreflective white letters/symbols. Use 3M High Intensity Prismatic White Sheeting 3930.
b. Silk screened; background inks shall be opaque, with retroreflective message.

E. R- Regulatory with retroreflective graphics and message on a retroreflective background.

1. All regulatory and warning signs to fully comply with MUTCD standards.
2. Base material: Aluminum.
3. R and signs shall have retroreflective messages and retroreflective background using either silk screening or pressure applied retroreflective letters and symbols.
4. Retroreflective colors determined by 23 CFR Appendix to Subpart F of Part 655, Alternate Method to Determining the Color of Retro-reflective Sign Materials and pavement marking materials.

a. Federal Highway Authority (FHWA) Reflective Sheeting Identification Guide using ASTM D 4956-04.
b. Sheeting Types I through IX.
c. The daytime color of non-fluorescent retroreflective materials may be measured in accordance with ASTM Method E 1349, Standard Test Method for Reflectance Factor and Color by Spectrophotometry using Bi- directional Geometry of ASTM Test Method E 1347. Standard Test Method for Color and Color-Difference Measurement by Tristimulus Colorimetry.
d. The geometric conditions to be used in both test methods are 0/45 or 45/0 circumferential illumination or viewing. The CIE standard illuminant used in computing the colorimetric coordinates shall be D 65.
e. For fluorescent retroreflective materials ASTM E991 may be used to determine the chromaticity provided that the D65 illumination meets the requirements for E 991.
f. The following 3M Diamond Grade DG^3 Reflective Sheeting materials meet the MUTCD retroreflective requirements:

1) White – DG^{3}4090
2) Red - DG^3 4092
3) Blue – DG^3 4095
4) Yellow - DG^3 4091
5) Green – DG^3 4097
6) Brown – DG^3 4099
7) Fluorescent Yellow – DG^3 4081
8) Fluorescent Yellow Green – DG^3 4083
9) Fluorescent Orange - DG^3 4084

F. PP- Pedestrian Panel Wayfinding and Directional Signs.

1. Base materials:

a. Aluminum with either reverse silk-screened graphics or pressure-applied letters.

2. Background color for all PP signs, pedestrian directional signs, to meet MUTCD standard blue, pantone color 294.

3. Graphics and Copy: Any of the following methods of producing graphics and copy may be employed:

a. Pressure applied non-reflective letters/symbols.
b. Silk screened over a flat opaque background.
c. Original art and/or multi-color graphics shall be digitally produced on graphic media.

G. PVC- Signs: PVC pipe clearance signs shall have pressure applied decals on black PVC pipe, rectangular retroreflective yellow base sticker 3M Diamond Grade yellow sheeting DG^3 4091 with black border, rounded corners, and black text. See drawings.

1. Electronically cut letters: 3M Scotchlite 3840 reflective sheeting.

2. 10 in. diameter, Schedule 40 PVC pipe, Corrosion Fluid Products Corporation, Addison, IL, or accepted equivalent. Color black.
3. If black PVC is not available, Paint: "Spraylat" Lacryl B No. 482 High Hiding Black. Meet Lacryl system specifications for painting on PVC.

H. A- Signs: All signs required to be brailled in compliance with ADA requirements for designating permanent rooms and spaces shall comply with ADA Accessibility Guidelines (ADAAG) as published by the Architectural and Transportation Barriers Compliance Board and ICC/ANSI A117.1. latest editions.

1. Aluminum:

   a. Text to be produced with Supersine process die-cut raised letters and brailled copy.

2. Phenolic-Backed Photopolymer Sheet, “Jet-388 Phenolic Signage” by JetUSA or equivalent. Provide light sensitive, water-wash photopolymer face layer bonded to a phenolic base layer to produce composite sheet with overall thickness of 0.15 inches, and substrate thickness of 0.12 inches and a Type D Shore Durometer hardness of 95.
3. Lettering and Grade II brailled to be raised 1/32”. Lettering to be painted white matte finish. Grade II brailled to be painted out with matte finish background in color shown on drawings. Edges painted same as face.
4. Produce precisely formed characters with square cut edges free from burrs and cut marks.
5. Fasteners shall be mechanical, concealed and tamper proof.

I. VR- Signs: Vandal-resistant signs where specified, shall have copy and graphics on second surface.

1. Base material shall be one of the following:

   a. "Lexan" General Electric Co. or accepted equivalent. Permanently laminate face panels to backing sheets of material and thickness indicated using manufacturer’s standard process. Except where digital art is required, signs shall be silk screened on second surface or single sheet.
   b. “Modulite/Moducal” by Pannier Graphics or equivalent fiberglass reinforced plastic (FRP) material. Copy and graphics shall be permanently embedded in fiberglass panel. Resulting sign shall be a solid, one-piece panel with graphic elements inseparable from fiberglass in which they are embedded. Laminated or encapsulated products will not be accepted.

2. Sign shall not be permanently defaced by steam, acids, aromatics, scratching, inks or paints and should be capable of being readily wiped clean with paint remover without affecting appearance or legibility of graphics. Sign shall retain legibility and finished appearance when sprayed with a 10% solution of hydrochloric, nitric or sulfuric acid for one-half hour or when scrubbed by a brush of medium hardness using common commercial cleaning compounds such as ammonia, laundry soaps, detergents, carbon

tetrachloride or petroleum-based solvents.

3. Sign shall be translucent with a clear or matte finish, as indicated. The index of refraction shall ensure clarity of color, copy and graphics.
4. Sign shall be router cut with sign edges not crazed or cracked and edge finish shall be smooth, neat and clean.
5. Original art and/or multi-colored graphics shall be digitally produced, electronic media.
6. Use colored coatings, including inks and paints for copy and background colors, recommended by manufacturer of sheet for optimum adherence to sheet surface and that are non-fading for application.
7. Fasteners shall be mechanical, concealed and tamper proof.

J. Fasteners and Supports:

1. Bolts, nylon insert lock nuts: ASTM A 320, Grade B stainless steel.
2. Rivets for signs: ASTM B 316, Alloy 6063-T61 or equivalent. Aluminum alloy blind rivets of self-plugging variety may be substituted for solid aluminum alloy rivets, subject to acceptance by Engineer/Architect.
3. Use concealed fasteners fabricated from metals not corrosive to sign material and mounting surface.
4. Anchors and Inserts: Use nonferrous metal or hot dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled in place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
5. Signposts: ASTM A 499 Grade 60 or ASTM A 576, Grade 1080 and meeting mechanical properties specified in ASTM A 499 for Grade 60 steel.
6. Posts shall be zinc coated per ASTM A 123. Posts shall be straight, with smooth, uniform finish, free from defects affecting strength, durability, or appearance. Punch bolt holes such that post face shall be smooth and even. All holes and ends shall be burr free. After all fabrication, flow coat posts with durable, exterior type, rust inhibiting paint. Paint color: black, unless otherwise indicated on Drawings.
7. Adhesives, where used for wall mounted signs, shall be per the sign material manufacturer’s recommendations.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Locate signs where shown using mounting methods of type described and in compliance with manufacturer's instructions. Install sign units’ level, plumb, and at height shown, with sign surfaces free from appearance defects.

B. For drilled anchors in concrete, verify location of embedded reinforcing steel, post-tensioning, or pre-stressing cables prior to installation.

C. Wall Mounted Panel Signs: Attach to wall surfaces with Hilti "Hit" anchors or ITW Ramset/Red Head Hammer Set anchors into concrete or masonry surfaces as shown on Drawings. DO NOT OVERDRIVE anchors, as overdriven anchors will damage sign faces and spall concrete.

D. Bracket Mounted Units: Provide manufacturer's standard brackets, fittings, and hardware as appropriate for mounting signs which project at right angles from walls or ceilings. Attach brackets securely to walls or ceilings with concealed fasteners and anchors per manufacturer's directions.

E. Installation of signs shall conform to requirements of Americans with Disabilities Act (ADA) and/or state or local accessibility standards.

3.2 CLEANING AND PROTECTION

A. At completion of installation, clean soiled sign surfaces in accordance with manufacturer's instructions. Protect units from damage until acceptance by Owner.

B. Cleanup: During progress of Work, remove from site all discarded materials and rubbish at end of each day.

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Work Included: Furnish and install toilet partitions and urinal screens.

1.02 RELATED DOCUMENTS

A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 1 of the Specifications.

1.03 SUBMITTALS AND SUBSTITUTIONS

A. In accordance with Section 01 3000.

B. Substitutions will not be considered prior to the award of the General Contract.

1.04 QUALITY ASSURANCE

A. Use personnel skilled in work required, completely familiar with manufacturer's recommended methods of installation, and thoroughly familiar with requirements of this work.

1.05 PRODUCT HANDLING

A. Protection: Protect toilet partitions and other items under this Section before, during, and after installation. Protect installed work and materials of other trades.

B. Replacements: In event of damage, immediately make repairs and replacements necessary at Contractor's expense.

PART 2 - PRODUCTS

2.01 SOLID PHENOLIC TOILET PARTITIONS AND URINAL SCREENS

A. Acceptable Manufacturer: ASI-Global Partitions, which is located at: 900 Clary Connector; Eastanollee, GA 30538; Tel: 706-827-2700; Fax: 706-827-2710; Email:request info (sales@asi-globalpartitions.com); Web:www.asi-globalpartitions.com

B. Toilet Compartments: Floor anchored/overhead braced—Alpaco Classic
   1. Compartment Depth and Width: As scheduled and indicated on Drawings.
   2. Door Width: 24 inches (610 mm), minimum; at ADA accessible compartments 36 inches (915 mm) minimum. Door height to be 194.95 cm or 76.75 inches high.

3. Pilaster Height: 2 meters or 78.7 inches.
4. Height above Floor: 6 or 9 inches as plumbing placement and compliance with applicable accessibility guidelines permit.

C. Privacy and Urinal Screens: Wall hung.

D. Doors, Panels, Screens, and Pilasters: Decorative surface sheet with solid phenolic core of melamine resin impregnated kraft paper fused under high temperature and pressure; edges machine sanded with a filleted edge. Manufacturer's standard.
1. Doors and Pilasters: 1/2 inch (13 mm) thick.
2. Panels and Screens: 1/2 inch (13 mm) thick.
3. Panels and pilasters: 78.7 inches (2 meters) high
4. Doors to be 76.75 inches high.
5. Door and pilaster edges shall be routed and overlapped to block sight lines into the compartments.
6. Edges: Black core.

E. Finish: Formica, Formal Walnut 05782-NG Natural Grain, vertical direction only

F. Door Hardware:
1. Hinge: Three (3) surface mounted barrel hinges formed from 304 Stainless Steel. Four hinges to be used on accessible doors.
2. Latch: Stainless Steel latch with indicator of occupancy. Latch to be mounted to the pilaster with integrated function as keeper for in-swinging doors. Latch will provide emergency access through an accessible slotted center pin in the external indicator.
3. Coat Hook and Bumper: Steel hook and bumper Type 304 stainless steel with black rubber tip.
4. Fastening Hardware: Manufacturer's standard, Type 304 stainless steel, No. 4 satin finish. Door hardware will be attached to holes predrilled at the manufacturing facility.

G. Mounting Brackets:
1. At Partition to Wall Connections: Provide stainless steel continuous bracket. Type 304 stainless steel, No.4 satin finish, with stainless steel theft-resistant barrel nuts and machine screws of same material and finish.
2. At Partition to Partition Connections: Provide manufacturer’s standard “U” or “F” style. Type 304 stainless steel, No.4 satin finish, with stainless steel theft-resistant barrel nuts and machine screws of same material and finish.

H. Headrail: Extruded aluminum headrail, octagonal in cross section, painted black.

I. Floor Anchored/Overhead Braced.
1. Compartment to be supported by pedestal fabricated from type 304 Stainless steel. Pedestal placed under the panels approximately 12” behind pilaster on standard compartments. ASI-Global Partitions will recommend placement of pedestal under large pilasters associated with accessible compartments.
2. Pedestal to be adjustable in height plus or minus 1 inch to compensate for uneven floors.

3. Pedestal to support panel 6 inches or 9 inches above finished floor.
4. Pedestal to be secured to floor with 2 1/2 inch corrosion resistant screws.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Inspection: Prior to work of this section, carefully inspect installed work of other trades and verify that work is complete to point where this installation may properly commence.

B. Discrepancies: Do not proceed with installation in areas of discrepancy until discrepancies are fully resolved.

3.02 INSTALLATION

A. Install toilet partitions and other items specified in this Section, anchoring components firmly in place for long life under hard use and in complete accordance with manufacturer's recommendations.

3.03 INSPECTION AND ADJUSTMENT

A. Upon completion of installation and as a condition of acceptance, visually inspect entire work of this section, adjust components for proper operation and straight alignment, and touch-up scratches and abrasions to be completely invisible.

END OF SECTION

PART 1 – GENERAL

1.1 WORK INCLUDED

a) Furnish and install partitions described in this specification and as shown on project drawings.
b) Partition components include but are not limited to:
a) Door units, complete with frame, leaf, and hardware (as specified in Part 2 – Products, 2.03 components)
b) Glass as indicated on drawings (and specified in Part 2 – Products, 2.03 components)
c) Electrical accessories as light switch and receptacle module indicated on drawings

1.2 QUALITY ASSURANCE

Glass partition manufacturer's quality system development, production and maintenance based on ISO 9001 specification and product components are manufactured in facilities certified under ISO 14001.

1.3 DESIGN REQUIREMENTS

a) If site is already built, conditions must be accurately surveyed and measured to accommodate glass partition system.
b) Based on nominal floor to ceiling height, base and ceiling frame have an overall building accommodation range of 2 ¼" (+ 1 ¼" / -1")
c) Glass partition system shall consist of components that are non-unitized for dismantling into component parts for ease of distribution, installation and storage.
d) Glass partition system shall be nominally 1 3/8" thick.
e) Glass partition systems shall accommodate floor levelness variations of +1/2" (expansion) and -1/4" (compression).
f) Glass partition systems shall accommodate ceiling levelness variations of +3/4" (expansion) and -3/4" (compression).
g) Glass partition system shall be capable of supporting standard ceiling heights from 8'0" to 10'0" in 1/16" increments.
h) Glass partition system shall include vertical wall starts capable of providing up to +/- ¼" of adjustment in width.
i) Glass shall be 10mm (3/8" nominal) or 12mm (1/2" nominal) thick and edges flat polished.
j) Glass can be joined in-line, 90 degrees corner, 3-way corner, 4-way corner and variable angle.
k) Glass can be joined using a transparent, 2mm x 6 mm (for 10mm glass) and 2mm x 8mm (for 12mm glass) wide adhesive acrylic tape.
l) 90 degree glass corner has mitered glass edge and acrylic tape 2mm x 8mm.
m) Glass can be joined to clear plastic connectors using a transparent, 1.5mm x 6mm (for 10mm and 12mm glass) wide adhesive tape
n) Partition system shall be capable of spanning lengths up to 24'0" with 10mm glass without vertical support and/or perpendicular wall intersection.

o) Partition system shall be capable of spanning lengths up to 36’0” with 12mm glass without vertical support and/or perpendicular wall intersection.
p) Glass partition system shall accommodate electrical requirements for power and light switches
q) Glass to be supplied by Teknion. If COG (or local) glass procurement, glass vendor shall meet all Teknion’s requirements for quality, flatness, incremental size and edge finishing.
r) Glass partition system shall be GREENGUARD (indoor air quality) certified for low emitting products.
s) Glass partition shall have a BIFMA e3 Level-1 Certification.
t) Aluminum structural components and trims must contain a minimum content of recycled and reclaimed materials of 31%.
u) Performance Requirements: In accordance with ASTM E90 (2016), glass shall provide ratings up to 35 STC.
v) Performance Requirements: shall be tested for structural performance in accordance with ASTM E 72.

1.4 SUBMITTALS

a) The basis for all bids in this section shall be Tek Vue Wall System, as designed and manufactured by Teknion. Other wall systems which meet this specification may be bid providing a complete submission of all applicable product specifications, details and certified independent laboratory test reports have been submitted to and approved by the architect or owner at least 10 working days prior to bid. This submission is to clearly outline areas of compliance and areas which fail to comply with function and performance requirements specified. Indication of approval will be by addendum issued by the architect.
b) Submit detailed CAD drawings in accordance with Section 01 33 23 - Shop Drawings, Product Data, Samples and Mock-ups. Include layout in plan and elevation, materials, components, finishes, door opening locations, special panels, conditions at adjacent construction, fastening to adjacent structure, accessories, and assembly details.
c) Submit certified test data, from an independent testing laboratory, stating that the wall system, has met the performance requirements stated in section 1.03
d) Installation Instructions: Submit published procedures for installation, including methods for addressing, special conditions and protection.
e) Failure to comply with submittal submission and compliance will result in rejection of bid.

1.5 SAMPLES

a) Submit samples in accordance with Section 01 33 23 – Shop Drawings, Product Data, Samples
and Mock-ups.
b) Glass Partition samples to show basic construction, glazed sections, door frames, trims and finishes.
c) Submit samples of glazing finishes for selection by [engineer] [consultant].
d) Upon request, submit sample of ceiling fixing device.

1.6 TEST REPORTS

a) Submit test reports in accordance with Section 01 33 23 – Shop drawings, Product Data, Samples and Mock-ups, from approved independent testing laboratory, certifying partition system complies with requirements stated in sections 1.03, 1.04 and 1.05.

1.7 REGULATORY

a) Requirement:
Electrical components are listed and labeled by UL - USA and CANADA

1.8 SITE CONDITIONS

a) Field verification: Verify actual site measurements and conditions prior to product Fabrication, and provide a record on retained shop drawings. It is the responsibility of the partition system manufacturer (or its agent) to ensure all site verifications, measurements and site conditions are properly gathered and recorded, communicated, and adhered to in accordance to manufacturing and installation of product and product performance. Coordinate site verifications and production schedules with construction schedules, where applicable, to avoid site delays.
b) Complete protection from weather and environmental conditions comparable to those that will exist after occupation are required prior to the installation of walls. A minimum temperature of 16C (60F) is required.
c) Complete protection from general construction practices, construction materials and materials handling, waste and by-products is the responsibility of the partition system manufacturer (or its agent).
d) Comply with building owner requirements for delivery and storage of materials.
e) Conform to ADA guidelines for access parameters

1.9 DELIVERY

a) Ensure all deliveries are complete, and of adequate and secure packing to avoid damage
b) Verify delivery location conditions prior to fabrication and delivery to ensure adequate availability to and at site, including component distribution and packaging and waste removal.

1.10 WARRANTY

a) Manufacturer’s warranty of 10 years in material and workmanship unless noted below, inclusive
of: Wood Fascia, Wood Tables, Laminated and Wood Doors and Manufacturing Electrical Wiring System Components.
b) Exceptions to this warranty include:
a) Lighting products and Grommets, for 1 year;
b) PET Whiteboard, for 3 years;
c) Architectural Complements products, for 5 years;
d) Teknion product with fabrics, for 5 years;
e) Glass marker boards, Glass tempered and or laminated, for 5 years;
f) Switch glass LCD film for 1 year, wiring transfer, power module, lamination, for 5 years;
g) Hardware:
• Electromechanical including locks and strikes , for 1 year;
• Auto drop seals and Soft close sliding door mechanisms, for 2 years;
• Door closers, glides, slides, adjustable worksurface mechanisms, arms, and bases, for 5 years;
c) A detailed Teknion Architectural Interiors warranty is available upon request.

PART 2 – PRODUCTS

2.1 ACCEPTABLE MODELS & MANUFACTURERS

Tek Vue Wall by Teknion Ltd

2.2 MATERIALS

a) Aluminum extrusions anodized in accordance with Aluminum Association Alloy 6063-T5.
b) Finish Type: Custom Metallic Paint Color, to match exterior curtainwall system
c) Cold Rolled Steel furniture grade per ASTM A366.
d) Glazing to comply with Federal Safety Standards for Architectural Glazing Materials.
e) Solid Door Panels in accordance with ASTM 1333-90

2.3 COMPONENTS

a) General framing and retaining components: Aluminum extrusion assembly configurations to provide rigidity, safe support and fixing of partition system.

b) Horizontal framing and trim components: Aluminum, Sized to minimize joints. Refer to Architectural Modular Frame Elevations

c) Vertical framing and trim components: Aluminum, Sized to minimize joints. Refer to Architectural Modular Frame Elevations

d) Extruded aluminum to be anodized in accordance with Aluminum Association Alloy 6063-T5.

e) Glazing: Nominal 10mm (3/8” nominal) or 12mm (1/2” nominal) laminated glazing. All glass shall comply with Federal Safety Standard for Architectural Glazing Materials (16 CFR, Part 1201). Glass thickness shall be determined by project heights/ spans. Refer to Architectural Modular Frame Elevations.

f) Glass Types:
a. Laminated
c. Finishes:
1. Clear
2. Low Iron

g) Pivot and Sliding Door Frames: Extruded aluminum prepared for hardware specified (later in this section). Custom Metallic Paint Color, to match exterior curtainwall system

h) Doors
a. Framed Glass Pivot Door Leaf, Single
b. Framed Glass Sliding Door Leaf, Single
All glass shall comply with Federal Safety Standard for Architectural Glazing Materials (16 CFR, Part 1201).

1. Door Structure : Framed Glass Pivot Door Leaf, Single
   a.Works with Single Universal Door Frame
   b. Includes two jamb and one header
   c. Frame: Custom Metallic Paint Color, to match exterior curtainwall system
   d.Substrate: tempered glass with clear or low iron glass finish
   e.Glass thickness: 10 mm
   f. Provide with Concealed Closer
   g. Clear Opening: 37 3/8”
   h. Include Door Stop
   i.All glass shall comply with Federal Safety Standard for Architectural Glazing Materials (16 FR, Part 1201).

2. Door Structure – Framed Glass Bard Door Leaf, Single
   a. Works with Single Universal Door Frame
   b. Includes two jambs and an adjustable top rail of 84” length
   c. Frame: Custom Metallic Paint Color, to match exterior curtainwall system
   d. Substrate: tempered glass with clear or low iron glass finish
   c. Glass thickness: 10 mm
   d. Include soft close / open rollers
   e. Rail Orientation per drawings
   f. Slide direction per drawings
   g. Clear Opening: 35 3/4”
   h. All glass shall comply with Federal Safety Standard for Architectural Glazing Materials
   (16 CFR, Part 1201).

i) Door Hardware:
Hardware shall be furnished by the architectural wall manufacturer to the partition contractor for their installation
1. Ladder Pull Door Hardware – Tubular steel pull of 1” diameter construction
Compatible with pivot (non-locking only) and barn doors
Compatible with single glazed and solid door leaf
All Locking
Mortise Cylinder with interchangeable core
Locking: 36 ½” nom from center line of cylinder
Finishes: Match Frames color

PART 3 – EXECUTION

3.1 INSTALLATION

a) Installation of glass partitions shall be under manufacturer’s qualified crew and direct supervision to insure wall performance compatibility with design and specification intent
b) Manufacturer shall provide touch-up materials for all nicks and scratches that may occur to the wall during handling and installation.

3.2 ADJUSTMENTS

a) Replace damaged components with new to match.
b) Touch up minor scratches to match factory finish.
c) Adjust doors to operate smoothly.

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Provide steel wardrobe lockers and accessories specified.

1.02 RELATED DOCUMENTS

A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 1 of the Specifications.

1.03 SUBMITTALS AND SUBSTITUTIONS

A. In accordance with Section 01 3000.

B. Substitutions will not be considered prior to the award of the General Contract.

1.04 QUALITY ASSURANCE

A. Provide each type of metal locker as a complete unit produced by a single manufacturer, including necessary mounting accessories, fittings and fastenings.

B. Warranty: Manufacturer warrants lockers against defects in materials and workmanship for a period of 2 years from the date of substantial completion of the project.

1.05 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Do not deliver lockers until building is enclosed and ready for their installation. Protect from damage during delivery, handling, storage and installation. At Contractor's expense, replace damaged lockers or components.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Provide lockers as manufactured by one of the following:
   1. Penco
   2. Lyon Metal Products
   3. List Industries, Inc.
   4. Republic Steel Corp.
   5. American Specialties

2.02 MATERIALS

A. Type of lockers required include:
   1. “Knock-Down" type Double tier wardrobe lockers, 15" x 18" x 72" size with continuous sloped tops and 4” closed base, standard door louvers, recessed handle, hasp for padlock (by others).

B. Sheet Steel: Cold-rolled steel for doors and door frames.

C. Fasteners: Cadmium, zinc or nickel plated steel. Exposed bolt heads, slotless type. Provide self-locking nuts or lock washers for nuts on moving parts. Do not expose bolts or rivet heads on fronts of lockers or frames.

2.03 FABRICATION

A. Sides and Backs: 24 gauge steel, flanged on two sides to give double thickness of metal at connections.

B. Tops, Bottoms and Shelves: 24 gauge zinc coated steel, flanged on all four sides to give double thickness of metal at connections.

C. Door Frames: 16 gauge formed steel channels. Vertical members shall have an additional flange to form continuous door strike. Corners shall be lapped and welded into a rigid assembly.

D. Door: Doors shall be 16 gauge steel with channel-formed vertical edges and 90 degree angle flanges at top and bottom.

E. Door Jambs: Lockers shall have jambs welded to side of door frames to engage locking device. Design and gauge of jamb shall prevent freeing of locking device by prying. Each jamb shall have safety reverse nose to eliminate hazard of sharp pointed edges protruding into the locker. Each jamb shall have a soft-rubber silencer secured through hole in jamb and upright member.

F. Hinges: Continuous piano hinge.

G. Locking Devices: 22 gauge steel channel shaped lock bar extending full height of door and operating within the channel formation of the door. Lock bar shall have self-contained, spring steel, nylon coated latching fingers that engage locker frame. Provide prelocking type. Inner face of lock bars are lined with 1/8" thick polyurethane tape.
   1. ADA openings must have ADA locking devices.

H. Drawn Recessed Handles: All parts are chrome plated, die-cast zinc alloy with a tensile strength of not less than 40,000 psi. No moving parts are to operate against outside surface of locker. Padlock attachment to be integral part of lift which is attached directly to locking bar and protected by fixed handle housing. The recessed handle shall be 4-1/8"W x 6-1/16"H x 1/4"D and is constructed of die-cast zinc alloy with a minimum tensile strength of 40,000 psi.

H. Finish: Powder coat finish - Black

2.04 LOCKER ACCESSORIES

A. Interior Equipment: Furnish each locker with the following items, unless otherwise indicated:
   1. Hooks
      a. Hooks to be heavy-duty forged steel with ball ends and zinc plated.
      b. Provide two single ceiling hooks and one double ceiling hook in each locker opening 20 inches or taller.
   2. Numbering
      a. Finish each locker with black anodized laser-etched aluminum number plate.
      b. Locate number plate near center of each door.
      c. Owner to furnish numbering sequence.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Carefully inspect installed work of other trades and verify that work is complete to point where this installation may properly commence. Verify that lockers may be installed in complete accordance with manufacturer's recommendations and conditions identified in Contract Documents. Do not proceed with installation in areas of discrepancy until discrepancies have been fully resolved.

B. If actual field dimensions vary from dimensions shown on Drawings, notify Architect prior to commencing work.

3.02 INSTALLATION

A. Install lockers at locations shown in accordance with manufacturer's instructions for a plumb, level, rigid and flush installation.

B. Anchor components firmly in place in complete accordance with manufacturer's recommendations.

C. Touch-up any marred finishes or replace as directed by Architect. Use only materials and finishes as recommended or furnished by the locker manufacturer.

3.03 ADJUSTMENT

A. Upon completion of installation, and as a condition of its acceptance, adjust components for proper operation and straight alignment.

END OF SECTION

PART 1 – GENERAL

1.1 SECTION INCLUDES
A. Custom laminate lockers, benches and accessories.

1.2 RELATED DOCUMENTS
A. Drawings and general provisions of the contract, including general and supplementary materials.

1.3 REFERENCES
A. AWI (Architectural Woodwork Institute) Architectural Woodwork Quality Standards Illustrated - Minimum standard for wood lockers shall conform to.
B. UBC - Requirements for Handicapped
C. ADA - Accessibility Guidelines for Buildings and Facilities

1.4 QUALITY ASSURANCE
A. All parts and hardware shall be AWI compliant, structurally sound, and free from defects, in material and workmanship under normal use and service for the full warranty period.

1.5 SUBMITTALS
A. Product Data: Available upon request, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.
   4. Product data specific to materials used in construction of locker.
   5. Samples: For each type of locker include no less than three of each Hollman standard laminates, hardware and/or accessories involving material and color selection.
B. Shop Drawings: Indicate locker plan layout for Hollman contracted installations, Component profiles and elevations, schedule of finishes, and accessories.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING
A. Store products in a dry, ventilated area until ready for installation.
B. Protect finishes from moisture, soiling and damage during handling.
C. Do not deliver lockers to be installed until painting and similar operations that could damage lockers have been completed in installation areas.

1.7 PROJECT CONDITIONS
A. Maintain environmental conditions (temperature {Average -70-degree F}, humidity {25-55%}, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s and AWI Standards.
B. During and after installation, maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s absolute limits.
C. Protect locker finish and adjacent surfaces from damage.

1.8 WARRANTY

A. Provide manufacturer's written limited warranty against any major structural defects attributable to Hollman process under normal use and service for a period of (3) years from the date of delivery to be replaced without charge, excluding labor.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Hollman Inc.; 1825 W. Walnut Hill Lane, Irving, TX 75038, Suite 110 Phone (972) 815-4000, Fax (972) 815-2921, Email: sales@hollman.com.

2.2 MATERIALS

A. Material shall be a high-industrial grade particle board core with .030 inch vertical grade high density thermo-fused laminate.

B. Material Thicknesses:
1. Doors, Slope Tops, End Panels, and Toe Kick Plates – For ¾" door models: Minimum ¾" (19.05 mm) finished thickness.
2. Locker boxes: Tops, back, bottoms, sides and shelves – Minimum 5/8" (15.875 mm) finished thickness.

C. Locker Doors: Locker door shall be the full width of the locker box (- 1/8 inch) and shall be frameless, allowing access to the entire width of the locker. Door edges will be sealed with 1 millimeter PVC edge banding to closely match locker door.

D. Locker Body: Locker body (tops, sides, and back) shall be constructed of high density thermofused laminate, Cambric-Hollman standard interior color. Additional premium (such as black, grey, and white) and custom interior options available if request. Lockers will have a 6 mm ventilation gap between locker door and box allowing a continuous natural air flow. Finished lockers have an expansion or contraction of +/- 1/16'' per locker. Locker boxes are edge banded with 1 millimeter PVC edge banding to closely match locker box. Custom edge banding is available if requested.

E. Colors: To be selected by project architect from Hollman's standard colors.

2.3 LOCKER MODELS:

A. LAMINATE Z LOCKERS – L-ZL

L-ZL (L3 Student Lockers):
Manufacturer: Hollman
Product: Nanolam Lockers/Laminate Model Z1
Size: 12"W x 72"H x 20"D
Interior Color: White
Exterior Color: Formica/ Formal Walnut 05782-NG/Vertical direction only
Notes: include 1 side hook, 1 coat road, soft close hinges, ADA as noted on drawings, KeylessH3 hasp/Matte Black, ID tag/Square Number Disc, on custom built millwork base

L-3L (L1 Standardized Patient Lockers):
Manufacturer: Hollman
Product: Locker Model C Lockers/Laminate Model C
Size: 15”W x 72”H x 20”D
Interior Color: White
Exterior Color: Formica/ Formal Walnut 05782-NG/Vertical direction only
Notes: 6” base, include 2 side hooks, soft close hinges, ADA as noted on drawings, KeylessH3 hasp/Matte Black, ID tag/Square Number Disc, on custom built millwork base

B. PHENOLIC Z LOCKERS – L-ZP

L-ZP (L1 Gym Lockers):
Manufacturer: Hollman
Product: Nanolam Lockers/Phenolic Model Z1
Size: 12”W x 60”H x 18”D
Interior Color: TBD
Exterior Color: TBD, allow for premium finish
Notes: include 1 side hook, 1 coat road, soft close hinges, ADA as noted on drawings, KeylessH3 hasp/Matte Black, ID tag/Square Number Disc, on custom built millwork base

C. Benches: TA19: Freestanding Bench: Hollman, Oslo Bench Standard #OSB, 15”W x 42”L x 18”H, Solid Surface Premium top (color TBD), Black legs

2.7 FABRICATION

A. General: Provide factory pre-assembled locker units. Lockers shall be fabricated using doweled and glued & nailed assembly process per AWI standards. Fabricate lockers square, rigid and without warp, with the finished faces flat and free of scratches and chips. Knock down units are unacceptable.
B. Trim Panels: Provide end panels, filler panels, base trim, valance, and slope top panels as required to complete the installation of the lockers.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Do not begin installation until adjacent substrates and finishes have been properly prepared.
B. Verify prepared bases are in correct position and configuration.
C. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
C. Verify adequacy of backing and support framing.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. If Hollman is not contracted for installation, client must unload lockers from the delivery truck.
C. Set and secure lockers in place; rigid, plumb, and level.
D. Use concealed joint fasteners to align and secure adjoining locker units.
E. Secure lockers with anchor devices to suit substrate materials. Minimum Pullout Force: 100lb. (445 N).
F. Install end panels, filler panels, tops, and bases as indicated on the approved shop drawings.
G. Install accessories (number disk, knobs, etc.).

3.4 ADJUSTING

A. Adjust moving or operating parts to function smoothly and correctly.

3.5 CLEANING

A. Clean locker interiors and exterior surfaces.

3.6 PROTECTION

A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before substantial completion.

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Work Included: Firefighting devices consist of hand-portable fire extinguishers and metal cabinets.

1.02 RELATED DOCUMENTS

A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 1 of the Specifications.

1.03 SUBMITTALS AND SUBSTITUTIONS

A. In accordance with Section 01 3000.

B. Substitutions will not be considered prior to the award of the General Contract.

1.04 PRODUCT HANDLING

A. Protection: Protect firefighting devices before, during, and after installation. Protect installed work and materials of other trades.

B. Replacements: In event of damage, immediately make repairs and replacements necessary at Contractor's expense.

PART 2 - PRODUCTS

2.01 FIRE EXTINGUISHERS

A. Typical: Provide multi-purpose, Model MP-10 dry chemical type for Class A, B and C fires with U.L. rating of 4A-80B:C as manufactured by Larsen's Mfg. Co., or approved equal.

B. At Kitchen: Provide "K Class", Model WC-6L wet chemical type with U.L. rating of 2A:1B:K as manufactured by Larsen's Mfg. Co., or approved equal. Provide manufacturer's standard wall mount bracket #1007.

2.02 FIRE EXTINGUISHER CABINETS

A. Recessed: Construct cabinets from 18 gauge, or heavier, stainless steel with #4 finish. Provide Larsen's Mfg. Co., "Architectural Series" No.SS2409-R, or approved equal, with "Vertical Duo" doors and black vertical die cut lettering. Mount at 48" to top of handle.

B. Semi-Recessed: Construct cabinets from 18 gauge, or heavier, stainless steel with #4 finish. Provide Larsen's Mfg. Co., "Architectural Series" No.SS2409-6R, or approved equal, with "Vertical Duo" doors and black vertical die cut lettering. Mount at 48" to top of handle.

C. Surface Mounted: Construct cabinets from 18 gauge, or heavier, stainless steel with #4 finish. Provide Larsen's Mfg. Co., "Architectural Series" No.SS2409-SM, or approved equal, with "Vertical Duo" doors and black vertical die cut lettering. Mount at 48" to top of handle.

D. Provide fire rated cabinets if required to be installed in a fire rated wall.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Coordination: Coordinate with other trades to ensure proper and adequate provision in framing and wall covering for installation of recessed cabinets.

B. Inspection:
1. Prior to installation, inspect cabinet recesses, and verify that necessary provisions have been made.
2. Do not proceed with installation in areas of discrepancy until discrepancies have been fully resolved.

3.02 INSTALLATION

A. Install firefighting devices in full accordance with pertinent regulations and manufacturer's recommendations.

3.03 SERVICE

A. Determine approximate completion date of Work. Inspect, charge, and tag fire extinguishers at date not more than ten days before or less than one day before actual completion date of the Work.

END OF SECTION

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Supply and installation of Automatic Vertically Folding Acoustical Wall(s) as shown on the architectural drawings. All necessary hardware, seals, lifting machinery, electrical controls are included.

1.02 RELATED WORK

A. The main support steel beam for the wall, as well as the miscellaneous support steel for the lifting machinery for the Automatic Vertically Folding Acoustical Wall – Section .

B. Ceiling storage pockets along axis of Automatic Vertically Folding Acoustical Wall – Section

C. All site wiring and connections for main power, including disconnect switches at each motor location. All site wiring and connections for control, including installation of key switches – Section

1.03 REFERENCES

A. ASTM E90, Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.

B. ASTM E413, Classification for Rating Sound Insulation.

C. ASTM E557, Standard Practice for Architectural Application and Insulation of Operable Partitions.

D. ISO 354, Measurement of Sound Absorption

E. ISO 140-3, Measurement of Airborne Sound Insulation

F. ASTM C423, Measurement of Sound Absorption

1.04 SUBMITTALS

A. Submit manufacturers' technical data for each type of operable wall specified herein.

B. Submit shop drawings showing complete layout of operable wall system based on field verified dimensions. The drawings shall include dimensional relationship to adjoining work. Include details indicating materials, finishes, tolerances, and methods of attachment to building steel and electrical requirements.

C. Submit certified test reports evidencing compliance to acoustical STC (Rw) requirements

1.05 SITE CONDITIONS

A. The floor underneath the operable wall along its axis, shall be flat to within +/- ¼" (6 mm) over the entire length of an operable wall. The peak to valley undulation of +/- ¼" (6 mm) shall not be closer together than 24" (610 mm) and a peak to valley undulation of +/- 1/8" (3 mm) shall not be closer than 12" (305 mm).

B. Support steel above the operable wall along its axis shall be parallel to the floor within +/-½" (12.7 mm) for the entire length of the operable wall. This includes loaded deflection. The beam must also be parallel to the centre line of the wall within ± 1/8" (3 mm), left to right.

C. The fixed walls at either end of the operable wall shall be within +1/4" (6 mm)-0", from plumb vertical.

D. The fixed walls at either end of the operable wall shall be flat to within +0", -1/4" (6 mm).

1.06 WARRANTY

A. Basic Warranty: The operable wall shall be warranted free from defects in material and workmanship for a period of two (2) years or five thousand (5,000) cycles, whichever occurs first, from the date of shipment. Extended Parts Warranty (optional): An extended warranty on parts is available in addition to the basic warranty. It includes coverage on all parts for a period of ten (10) years or five thousand (5,000) cycles, whichever occurs first from date of shipment. Refer to Owner's manual for full warranty details.

B. Acoustical Performance: The operable wall shall retain its acoustical properties for 10 years from the date of shipment providing proper maintenance has been performed on the partition.

C. Parts and labor required to maintain the operable wall and part subject to normal wear and tear are not covered under the warranty and are the owner's responsibility. (Refer to Maintenance Program).

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Skyfold® Classic™ Custom Powerlift Partitions as manufactured by Railtech Ltd. of Baie d'Urfe (Montréal), Québec, Canada and Railtech Composites Inc., Plattsburgh, New York, USA (514) 457-4767.
   1. Skyfold Zenith® Premium 55:System STC 55 (Rw 54), Panel Construction STC 61 (Rw 60)
   2. Premium finishes : Markerboard
   3. Optional LED lights where indicated in drawings

2.02 MATERIALS

A. Acoustical Panels

1. Acoustical panels shall be faced with steel that is compatible with a wide variety of architectural finishes such as paint, vinyl, fabric*, specialty metals, wood veneer, etc.
   *Only acoustically transparent fabric finish for Skyfold® Classic NR™.
2. Acoustical panels, together with all of the sound insulation, shall be, as much as possible, made of non-combustible or fire-treated materials.
3. Acoustical panels shall be fabricated to be as stiff as possible in order to satisfy the rigid criteria when the operable wall is down (closed) and to ensure that there is no interference between panels when the wall is in motion.
4. Acoustical panels shall be architecturally flat with no bowing, oil canning, warping, waviness or any other surface deformation and discontinuity.
5. Acoustical panels shall have the finish of the architect's choice, provided that the finish has been approved by the operable wall manufacturer to ensure compatibility with the wall panels. The following criteria must be met:
   Maximum weight of material: 0.111 lbs/ft² (0.542 kg/m²)
   Maximum thickness of material: 1/8" (3mm)
   No brittle materials.
   Finishes are railroaded onto the panels, applied horizontally along the panel length. Pricing will vary depending on finish selection.
6. Acoustical panels shall meet the following STC ratings in accordance with ASTM E90 (ISO 140-3) specification as reported by an independent laboratory.

Skyfold Product	Panel Construction	Fully Automatic Operable wall
Skyfold Zenith® Premium 51	61 STC (60 Rw)	51 STC (51 Rw)
Skyfold Zenith® Premium 55	61 STC (60 Rw)	55 STC (54 Rw)
Skyfold Zenith® Premium 60	66 STC (64 Rw)	60 STC (59 Rw)
Skyfold Zenith® Premium NRC	60 STC (58 Rw)	50 STC (49 Rw)

B. Folding Mechanism

1. The hanging, folding and extension mechanism shall be, as much as possible, made from structural grade aluminum extrusions and structural shapes, in order to minimize the weight of the system.
2. All wear surfaces, such as bushings, spacers, pins, discs, bearings, and sleeves shall be designed to function quietly and with minimum wear, over the 10,000 cycle design life of the operable wall.
3. The hangers, which fasten the lifting mechanism to the support steel, shall be fabricated from steel and shall be welded or bolted to the support steel supplied by others.

C. Motor Drive

1. The motor drive shall be sized properly so that it can open and close the wall effectively over the 10,000 cycle design life of the wall, at the minimum design speed specified
2. The folding mechanism shall be designed to function as smoothly, quietly and safely as possible. Wherever possible, ball bearings shall be used instead of

bushings and wear surfaces. In no circumstance shall chain or belt drive systems be acceptable.

3. There shall be a wire rope cable for every set of folding mechanism. This cable shall be of 6 x 31 construction aircraft cable and shall be made of galvanized steel. The diameter of the cables shall be sized so that they shall be able to hold the entire weight of the wall, with the appropriate safety factor.
4. The cable wraps on yoyo drums with 2 safety wraps and multiple layers of cable.
5. The line shaft, sized to deliver the required torque with minimum deflection, shall support and rotate the cable drums.
6. Flange bearings shall be used for the drive system, located immediately on both sides of the drum assembly.
7. The motor drive shall be sized to deliver sufficient amount of torque to safely and effectively raise and lower the operable wall over its design life.
8. The motor drive shall use the latest in industry standards in thermal protection, overload protection, quick acting fuses, etc., in order to ensure the safety and reliability of the system.

D. Safety Equipment

1. The operable wall shall employ an electromagnetic type of brake which shall activate firmly, without hesitation, when power is lost to the system. This brake shall have a minimum retarding torque rating equal to 200% of the motor drive's full load torque. The drive system shall be equipped with a manual override and a brake release lever.
2. The operable wall shall employ a dynamic brake, distinct and separate from the brake 2.02/D.1, in order to lower the wall at a controlled speed of no more than approximately 150% of the normal down speed, in the case of a catastrophic failure in the motor drive's power train. Alternately, the operable wall shall employ a brake, distinct and separate from the brake in 2.02/D.1, in order to completely halt the downward motion of the wall in the case of a catastrophic failure in the power train.
3. The operable wall shall employ electrical or other limit switches in order to stop the wall at its up and down travel limits.
4. The operable wall shall employ an over torque detector in order to sense a jam in the system and to act as an over travel limit in the up direction should the primary limit switch fail to act. This over torque sensor shall be mechanical, using the motor's torque arm in its over torque detection.
5. The entire length of the bottom edge of the operable wall shall be equipped with a continuous pressure sensing strip which shall cut power to the motor drive and shall activate the brake, if the sensing edge comes in firm contact with an object, before the wall is in the full down (closed) position. The power shall remain cut to the motor drive until the key switch has been released or the direction of the wall has been reversed and the obstruction is removed.

E. Electrical

1. The operable wall shall be equipped for a three phase power supply to the electrical control box.
2. Standard electrical control box will be NEMA 1. NEMA 4 is also available upon request.

3. Low voltage wiring (by others). 18 gauge wiring from the switches to the control box.
4. Switches: Two (2) push button switches wired in series with power controlled by a single, three position key switch. (Installation and wiring by others).

2.03 FABRICATION

A. Factory assemble all components, assemblies and systems into the largest possible assemblies in order to minimize the amount of assembly on site.

PART 3 - EXECUTION

3.01 INSPECTION

A. Inspect the relevant aspects of the site such as the evenness of the floor, walls, structural steel, etc., and ensure that these are within the tolerances stated in Part – 1 of this specification.

B. Confirm in writing to the General Contractor or contract manager any deviations from these tolerances. Do not proceed until these conditions are made good.

C. Carry out all appropriate field measurements before manufacturing any components or assemblies.

3.02 INSTALLATION

A. Install operable walls in accordance with the manufacturer's printed instructions.

B. The operable wall supplier shall not deliver or install this product until the General Contractor can ensure in writing safe storage and protection for the wall for the duration of the project.

3.03 ADJUSTING AND CLEANING

A. Adjust and fine-tune the operable walls to ensure that all seals are operating and sealing properly and that the walls are in correct and smooth operation.

B. Clean up any dirt, oil, grime, etc., that may have found its way onto the acoustical panels. Leave the wall in a state of architectural cleanliness.

3.04 SPARE PARTS

A. Ensure the manufacturer has ample stock available for repairs.

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Furnish and install metal accessories called for in Toilet Accessory Schedule.

1.02 RELATED DOCUMENTS

A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 1 of the Specifications.

1.03 SUBMITTALS AND SUBSTITUTIONS

A. In accordance with Section 01 3000.

B. Substitutions will not be considered prior to the award of the General Contract.

1.04 QUALITY ASSURANCE

A. Use personnel skilled in work required, completely familiar with manufacturers' recommended methods of installation, and thoroughly familiar with requirements of this work.

1.05 PRODUCT HANDLING

A. Protection: Protect toilet and bath accessories before, during, and after installation. Protect installed work and materials of other trades.

B. Replacements: In event of damage, immediately make repairs and replacements necessary at Contractor's expense.

PART 2 - PRODUCTS

2.01 METAL TOILET ACCESSORIES

A. Manufacturers and Accessory Numbers are listed in Toilet Accessory Schedule. Manufacturers who may furnish products for review by Architect are: Bobrick, Bradley, McKinney or American Specialties.

2.02 MATERIALS

A. Stainless Steel: AISI Type 302/304, with Brushed finish, 0.034-inch (22-gage) minimum thickness.

B. Brass: Leaded and unleaded, flat products, ASTM B 19; rods, shapes, forgings, and flat products with finished edges, ASTM B 16; Castings, ASTM B 30.

C. Sheet Steel: Cold-rolled, commercial quality ASTM A 366, 0.04-inch (20-gage) minimum. Surface preparation and metal pretreatment as required for applied finish.

D. Galvanized Steel Sheet: ASTM A 527, G60.

E. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.

2.03 FASTENERS

A. Provide screws, bolts, and other devices of same material as accessory unit, or of galvanized steel where concealed.

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Coordinate with other trades to ensure proper and adequate provision in framing and wall finish for installation of selected accessories.

B. Prior to installation, inspect location of accessories and verify that necessary provisions have been made. Do not proceed with installation in areas of discrepancy until discrepancies have been fully resolved.

3.02 INSTALLATION

A. Install accessories in accordance with manufacturers' recommendations, anchoring components firmly in place.

3.03 TOILET ACCESSORY SCHEDULE

TA1.1: Kohler, Components 18” Vertical grab bar, #K-25160-CP, Polished Chrome finish

TA1.3: Kohler, Components 36” Horizontal grab bar, #K-25161-CP, Polished Chrome finish

TA1.4: Kohler, Components 48” Horizontal grab bar, #K-25162-CP, Polished Chrome finish

TA3: Concealed Paper Towel Dispenser: American Specialties, Traditional Towel Dispenser #0439

TA4: Recessed Paper Towel Dispenser: American Specialties, Piatto Collection, #6457, White

TA5: Freestanding Paper Towel Holder: custom-fabricated paper holder with custom-designed CNC design with eased & bent edges, brass finish with rubber grip-feet

TA6: Toilet Paper Holder: Kohler, Components Covered Double Toilet Paper Holder, #K-78384-CP, Polished Chrome finish

TA7: Freestanding Waste Receptacle: custom-fabricated waste receptacle with custom-designed shape and pattern, brass finish with leveling feet

TA8.1: Soap Dispenser: Kohler, Artifacts Collection #K-98630, Finish: Vibrant Brushed Moderne Brass

TA8.2: Soap Dispenser, Wall mounted: Kohler, Purist Wall-mount Soap Dispenser #K-14380-CP, Polished Chrome finish

TA9: Decorative Framed Mirror: custom-fabricated frameless mirror with 1/2" x 1" brass finish J-trim at perimeter (radiused), refer to drawings for size & design

TA10: Towel Hook: Kohler, Avid Robe Hook #K-97500-CP, Polished Chrome finish

TA11: Purse Hook: Kohler, Avid Robe Hook #K-97499-CP, Polished Chrome finish

TA12: Frameless Mirror: refer to drawings for sizes

TA13: Utility Shelf with Mop and Broom Holder, American Specialties #1308-3

TA14: Shower Curtain Rod with Vinyl Curtain: American Specialties #1204-2 with End Flanges (refer to plans for sizing), 72" 8-gauge White Vinyl Shower Curtain with stainless steel curtain hooks

TA15: Sanitary Napkin Disposal: American Specialties #0852 surface-mounted, Satin Stainless Steel

TA16: Shower Shelf: Kohler, Choreograph 14" Floating Shower Shelf #K97622-SHP, Bright Polished Silver Finish

TA17: Diaper Changing Station: Dan Dryer, 3224 Bjork Baby Changing Station with Safety Strap, RAL Classic Colour (TBD, color to match P1 paint)

TA18: Trash Chute: American Specialties, 6" Circular Countertop Waste Chute #1000

TA19: Refer to Section 10 5100

TA20: Seat Cover Dispenser: American Specialties #0477-SM, surface mounted, Satin Stainless Steel

TA21: Lit Mirror: Kohler, Lighted Mirror #K-99571-TLC-NA, 24"W x 33"H

END OF SECTION

PART 1 - GENERAL

1.01 DESCRIPTION

A. Provide miscellaneous specialties specified.

1.02 RELATED DOCUMENTS

A. Applicable portions of the Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to the execution of the Contract, other documents listed in the Agreement and Modifications issued after the execution of the Contract shall apply to this Section. The general requirements for this work are located in Division 1 of the Specifications.

1.03 SUBMITTALS AND SUBSTITUTIONS

A. In accordance with Section 01 3000.

B. Substitutions will not be considered prior to the award of the General Contract.

1.04 QUALITY ASSURANCE

A. Furnish at least one person, present at all times, thoroughly familiar with installation requirements of each item, to personally supervise installation.

1.05 PRODUCT HANDLING

A. Protection: Protect miscellaneous specialty items before, during, and after installation. Protect installed work and materials of other trades.

B. Replacements: In event of damage, immediately make repairs and replacements at Contractor's expense.

PART 2 - PRODUCTS

2.01 RAPID ENTRY SYSTEM

A. Provide Knox-Box emergency entry key box by Knox Co., 800-552-5669, or approved equal. Provide 3200 Series recessed unit in bronze color. Contractor to contact local fire department to apply for authorization to order box. Orders are not accepted without authorized signature of local fire official.

B. Knox Elevator Box Model: 1403, bronze color, heavy-duty UL 1037 listed, surface mount without UL listed alarm tamper switches. 10 gauge plate steel housing, 100% welded. Door: 10 gauge steel, lock protecting hardplate, 1” security overlap. Lock shall be UL listed. Lock shall have 1/8” stainless steel dust cover with tamper seal mounting capability.

2.02 GAS FIREPLACE

A. DaVinci Custom Fireplace, SINGLE SIDED/SEE THRU 72" x 20"-SS-ST

B. Manufacturer shall provide roof mounted power vent fan assembly.

2.03 GLASS MARKERBOARD

A. Claridge Glass Dry Erase Whiteboard, Invisa-mount, Magnetic, color: non-standard powder coat TBD, landscape orientation, refer to drawings for type & quantities
GMB5: 48”H x 60”L
GMB6: 48”H x 72”L
GMB8: 48”H x 96”L
GMB4: 96”H x 48”L

2.04 WALL AND CORNER GUARDS AND HANDRAILS

A. CG: Corner guard, surface-mounted
Manufacturer: Koroseal
Product: G815 Extruded Corner Guard
Height: 8’, 1 ½” wing
Color: TBD
Installation Method: Adhered

B. RVS: Rigid Vinyl Sheet Wall Protection
Manufacturer: Koroseal
Product: Korogard Sheet
Size: 4’H x 120’L roll, .040” thickness
Texture: Dune
Color: TBD
Accessories: M082 J-Molding (top & bottom cap), M083 Inside Corner, M085 Outside Corner, M087/M088 Divider Bar

2.05 FIBERGLASS REINFORCED WALL PANEL

A. Manufacturer: Marlite FRP panels shall be as provided by Marlite, 202 Harger Street, Dover Ohio 44622 (330-343-6621).

B. Materials: Provide "Symmetrix Panels" with Sani-Coat sealer. Provide all trim, base molding and corner pieces required.

C. Adhesive: C-551 Marlite FRP Adhesive or C-375 Marlite Construction Adhesive as required.

D. Sealant: MS-250 Clear or MS-251 White Marlite Silicone Sealant as required.

2.06 CUBICLE CURTAIN AND TRACK

A. Cubicle Tracking System: Clickeze, InPro Corporation, 800-222-5556
   1. Nanotrac, extruded aluminum cubicle track with white baked acrylic enamel finish. Aluminum shall be 6063-T5.
   2. Dimensions: height 1/2", width 5/8": CE700008 - 8 foot length; CE700016 - 16 foot length
   3. Bent sections: Provide factory bent track sections with one-foot radii to mate with straight track sections: CE7042 - 2' x 2', 45° bend; CE7092 - 2' x 2', 90° bend

B. Track Splice: Provide molded thermoplastic splice to join track sections: CE7017 - Track Splice

C. End Caps: Provide molded thermoplastic end caps for end of track section: CE7025 End Cap

D. Wands: Provide wand to move curtain along track: CE9224 - Adjustable Chain Wand 24” length

E. Curtain Carriers: Provide non-binding carriers to accurately fit track. Carriers to be fitted to curtain to prevent accidental curtain removal. 2.2 carriers per lineal foot of track length, plus one extra carrier: CE7019 – Nanotrac Slide Carriers

F. Tie Backs: Provide curtain tie back to hold curtain back: CE9251 - Curtain Tie Back - 48" long chain Fabric Tie Back - 3" x 18", 3/4" white velcro each end.

G. Adjustable Drop Chain: Provide drop chain and adjust on site to accommodate curtain at desired height for air/stream circulation: CE9039 - Adjustable Drop Chain

H. Curtains: Cubicle curtain to be selected outside of manufacturer’s standard offering with 19”H standard color mesh, curtain to be 12” above finished floor. Curtain Fabric: Pallas/Stratum/color: Griseus #29.084.012

PART 3 - EXECUTION

3.01 SURFACE CONDITIONS

A. Prior to installation, verify items may be installed in accordance with manufacturers' recommendations.

B. Notify Architect of conditions that would adversely affect installation.

C. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install miscellaneous specialties in strict accordance with manufacturers' current recommendations and instructions.

3.03 ADJUSTMENT AND CLEANING

A. Verify that trim is in place and adjust components.

B. Remove labels from equipment and remove packing materials from job site.

END OF SECTION